

| <b>Date</b> | <b>Day</b> | <b>Time (A.M.)</b> | <b>Topic</b>  | <b>Faculty</b>            |
|-------------|------------|--------------------|---|---------------------------|
| 8/14        | Mon        | 8:00-8:50          | Introduction to the course (Objectives and ground rules of course; introduction to the discipline)  | G. Patrick/<br>G. Galasko |
| 8/14        | Mon        | 9:00-9:50          | Pharmacokinetics: Drug Absorption and Distribution (Drug passage across membranes; ionization; routes of administration; body compartments) | G. Patrick                |
| 8/18        | Fri        | 10:00-10:50        | Pharmacokinetics: Drug Metabolism and Elimination (Hepatic metabolism; renal drug clearance)  | G. Patrick                |
| 8/18        | Fri        | 11:00-11:50        | Pharmacokinetics: Drug Elimination  | G. Patrick                |
| 8/21        | Mon        | 8:00-8:50          | Pharmacodynamics: Receptor Theory and Signaling Mechanisms(Receptor types; second messengers)   | G. Galasko                |
| 8/22        | Tues       | 10:00-10:50        | Pharmacokinetic Principles: Time Course of Drug Action (Zero- and first order kinetics, half-life)  | P.<br>Treadwell           |
| 8/22        | Tues       | 11:00-11:50        | Pharmacokinetics: Time Course of Drug Action (Drug accumulation, dosing regimens)   | P.<br>Treadwell           |
| 8/24        | Thur       | 8:00-8:50          | Pharmacodynamics: Dose-Response Relationship (Dose-response curves; agonists and antagonists; potency and efficacy)                         | G. Galasko                |
| 8/24        | Thur       | 9:00-9:50          | Factors Modifying Drug Effects (Effects of size, age, pathophysiology, idiosyncrasy, tolerance, etc.)                                       | G. Galasko                |
| 8/24        | Thur       | 10:00-10:50        | Pharmacology in Geriatric Patients (Body compartments, metabolic changes, pathophysiology, adherence issues, polypharmacy)                  | K.<br>Brummel-Smith       |
| 8/25        | Fri        | 10:00-10:50        | Drug Evaluation and Regulation (Drug development, clinical trials, post-marketing surveillance, drug laws)                                  | G. Patrick                |
| 8/25        | Fri        | 11:00-11:50        | Placebo Effect; Herbal Products (Placebos, major herbal preparations, regulation of dietary supplements)                                    | G. Patrick                |
| 8/28        | Mon        | 10:00-10:50        | Conference: Review of General Principles  | G. Patrick/<br>G. Galasko |
| 9/05        | Tues       | 10:00-10:50        | Conference: Evaluation of Drug Literature and Advertising(Experimental design, evidence-based evaluation)                                   | G. Patrick/<br>G. Galasko |
| 9/08        | Fri        | 8:00-12:00         | EXAMINATION # 1   | G. Patrick                |

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| 9/11   | Mon  | 8:00-8:50   | Introduction to Autonomic Pharmacology (Anatomy, neurotransmitters, receptor types)  | G. Patrick    |
| 9/11   | Mon  | 9:00-9:50   | Autonomics: Cholinergic Pharmacology (Cholinergic stimulants, cholinesterase inhibitors)   | G. Galasko    |
| *9/12  | Tues | 8:00-8:50   | Autonomics: Cholinergic Drugs (Muscarinic blockers, nicotine)  | G. Galasko    |
| 9/12   | Tues | 9:00-9:50   | Autonomics: Cholinergic Drugs (Ganglionic and neuromuscular blockers)  | G. Galasko    |
| 9/12   | Tues | 10:00-10:50 | Autonomics: Adrenergic Drugs (Adrenergic receptors, catecholamines)  | G. Patrick    |
| 9/13   | Wed  | 8:00-8:50   | Autonomics: Adrenergic Drugs (Sympathomimetics – alpha and beta agonists)  | G. Patrick    |
| 9/13   | Wed  | 9:00-9:50   | Adrenergic Drugs (Alpha and beta blockers, drugs acting on sympathetic nerve endings)  | G. Patrick    |
| *9/14  | Thur | 8:00-9:50   | Clinical Case(s) and Review: Autonomic Drugs (SMALL GROUPS - *with Quiz)   | Staff         |
| 9/20   | Wed  | 8:00-8:50   | Cancer Chemotherapy Principles (Cell cycle, resistance, log kill hypothesis)   | G. Patrick    |
| 9/20   | Wed  | 9:00-9:50   | Biotherapy of Cancer (Gene therapies, antibodies, growth factors)  | G. Patrick    |
| 9/22   | Fri  | 10:00-10:50 | Antineoplastic Agents (Antimetabolites, antibiotics)   | G. Patrick    |
| 9/25   | Mon  | 9:00-9:50   | Antineoplastic Agents (Alkylating agents, microtubule inhibitors)  | G. Patrick    |
| 9/29   | Fri  | 10:00-10:50 | Immunopharmacology (Immunosuppressive agents)  | S. Cappendijk |
| 9/29   | Fri  | 11:00-11:50 | Immunopharmacology (Immunosuppressants, immune stimulants)   | S. Cappendijk |
| *10/04 | Wed  | 8:00-9:50   | Chemotherapeutic Principles (SMALL GROUPS – *with Quiz)  | Staff         |
| 10/06  | Fri  | 8:00-12:00  | EXAMINATION # 2  |               |
| 10/9   | Mon  | 8:00-8:50   | Principles of Antimicrobial Therapy  | G. Galasko    |
| 10/10  | Tues | 10:00-10:50 | Antimicrobial Agents: Cell Wall Synthesis Inhibitors (Penicillins, cephalosporins, other beta-lactams, vancomycin)               | G. Galasko    |
| 10/10  | Tues | 11:00-11:50 | Antimicrobial Agents: Protein Synthesis Inhibitors (Tetracyclines, macrolides, aminoglycosides, streptogramins, chloramphenicol) | G. Galasko    |
| 10/11  | Wed  | 8:00-8:50   | Antimicrobial Agents: Aminoglycosides, Sulfonamides, Fluoroquinolones, etc.  | G. Patrick    |

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| 10/11    | Wed  | 9:00-9:50   | Antimicrobial Agents: Fluoroquinolones, Miscellaneous                         | G. Patrick                |
| 10/13    | Fri  | 10:00-10:50 | Antimicrobial Agents: Antitubercular and related drugs                        | G. Patrick                |
| 10/17    | Tues | 11:00-11:50 | Clinical Cases: Antimicrobial Agents  | G. Patrick/<br>G. Galasko |
| 10/20    | Fri  | 10:00-10:50 | Antifungal Agents (Systemic and topical; azoles, amphotericin B, flucytosine) | G. Patrick                |
| 10/24    | Tues | 10:00-10:50 | Antiviral Agents (Drugs for influenza, herpes infections)                     | P.Treadwell               |
| 10/24    | Tues | 11:00-11:50 | Antiviral Agents (Drugs for HIV infection)                                    | P.Treadwell               |
| 10/26    | Thur | 8:00-8:50   | Antiparasitic Agents (Antimalarials, other antiprotozoal agents)              | G. Galasko                |
| 10/26    | Thur | 9:00-9:50   | Antiparasitic Agents/SUSSAI (Other antiparasitic, anthelmintic agents)        | G. Galasko                |
| *10/31   | Tues | 8:00-9:50   | Clinical Cases: Antimicrobial Agents (SMALL GROUPS – *with Quiz)              | Staff                     |
| 11/03    | Fri  | 8:00-12:00  | EXAMINATION # 3   |                           |
| * (Quiz) |      |             |   |                           |